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## **The present situation of the Vespidae-fauna (Hymenoptera, Aculeata) of Turkey**

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**A b s t r a c t :** This study is based upon material of family Vespidae collected from different localities of Turkey between 2007 and 2008, and the other related studies on the Vespidae in Turkey were reviewed. Including the new taxa determined in this study a total of 301 species and subspecies from 52 genera were recorded from Turkey up to now. *Paragymnomerus spiricornis* (SPINOLA 1808) and *Eumenes modestus* GUSENLEITNER 2006 are new records for Turkish fauna. In addition, new localities have been found for some species and subspecies which have already been reported in Turkey

**K e y w o r d s :** Hymenoptera, Vespidae, fauna, new records, Turkey.

### **Introduction**

Total 298 species and subspecies belonging to 52 genera of Vespidae were recorded from Turkey (YILDIRIM & GUSENLEITNER 2007). *Hemipterochilus bicoloricornis* (GIORDANI SOIKA 1952) recorded from Antalya (Payalar, Konaklı) (DVORAK & CASTRO 2007). A total 299 species and subspecies belonging to 52 genera belonging to four subfamilies Vespinae, Polistinae, Eumeninae and Masarinae of Vespidae were recorded in Turkey. Separately, the type localities of two genera, 70 species and 17 subspecies from Vespidae are situated in Turkey (YILDIRIM 2008).

In this study, the present situation of Vespidae species and subspecies of Turkey were evaluated. Including the new taxa determined in this study a total of 301 species and subspecies belonged to 52 genera from family Vespidae were recorded from Turkey up to now.

The material of the Vespidae was collected from different localities of Turkey in 2007-2008. Provinces of the collected specimens are given in alphabetical order in the following list. The material is deposited in the Entomology Museum, Erzurum, Turkey (EMET).

## Results

### Subfamily Vespinae

#### *Vespa orientalis* LINNÉ 1771

Material examined: Adana: Ceyhan, Botaş, 13.VII.2007, 3♀♀; Antalya: 15.VIII.2008, 3♀♀.

#### *Vespula (Paravespula) germanica* (FABRICIUS 1793)

Material examined: Adana: Karaisalı, Kızıldağ, Akpınar, 1650 m, 22.VII.2007, 2♀♀; Aksaray: 15.VII.2008, 2♀♀; Erzurum: Oltu, Sarısaz, 1400 m, 25.V.2007, 9♀♀; 20.VI.2007, 3♀♀, 25.VII.2007, 2♀♀.

#### *Dolichovespula sylvestris* (SCOPOLI 1763)

Material examined: Adana: Karaisalı, Kızıldağ, Akpınar, 1650 m, 22.VII.2007, 8♀♀; Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, 3♂♂.

### Subfamily Polistinae

#### *Polistes atrimandibularis* ZIMMERMANN 1930

Material examined: Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♂.

#### *Polistes biglumis alpium* BLÜTHGEN 1957

Material examined: Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, 3♂♂, 6♀♀; Erzurum: Oltu, Sarısaz, 1400 m, 25.V.2007, 2♂♂, 4♀♀.

#### *Polistes gallicus* (LINNÉ 1767)

Material examined: Adana: Karaisalı, Kızıldağ, Akpınar, 1650 m, 22.VII.2007, 5♀♀; Aydın: Hasancık, 650 m, 3.VII.2008, 4♀♀; Erzurum: Oltu, Sarısaz, 1400 m, 25.V.2007, 3♀♀.

#### *Polistes nimpha* (CHRIST 1791)

Material examined: Adana: Ceyhan, Botaş, 13.VII.2007, 3♀♀; Antalya: 15.VIII.2008, 2♀♀, ♂; Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, 2♂♂; Erzurum: Oltu, Sarısaz, 1400 m, 25.VII.2007, 2♀♀, 4♀♀.

#### *Polistes sulcifer* ZIMMERMANN 1930

Material examined: Erzurum: Oltu, Sarısaz, 1400 m, 25.VII.2007, 2♀♀.

### Subfamily Eumeninae

#### *Paragymnomerus s. spiricornis* (SPINOLA 1808)

Material examined: Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♀.

Distribution in Turkey: New for the Turkish fauna.

Distribution in the world: Europe, eastward to Armenia.

***Gymnomerus laevipes* (SHUCKARD 1837)**

Material examined: Erzurum: Oltu, Vocational Training School fields, 1345 m, 25.V.2007, ♂, Sarisaz, 1400 m, 25.VII.2007, ♀.

***Leptochilus (Neoleptochilus) regulus* (SAUSSURE 1855)**

Material examined: Aksaray: 8.VII.2008, ♂.

***Leptochilus neutralis* (GIORDANI SOIKA 1943)**

Material examined: Adana: Ceyhan, Botaş, 13.VII.2007, ♀; Adıyaman: Nemrut, 1650 m, 2.VII.2008, ♀.

***Tachyancistrocerus rhodensis* (SAUSSURE 1855)**

Material examined: Adana: Ceyhan, Botaş, 13.VII.2007, 6♂♂.

***Jucancistrocerus jucundus* (MOCSARY 1883)**

Material examined: Erzurum: Oltu, Sarisaz, 1400 m, 25.VI.2007, ♀.

***Eustenancistrocerus israelensis* GIORDANI SOIKA 1952**

Material examined: Erzurum: Olur, 1600 m, 20.VII.2007, ♀.

***Antepipona iconia* (BLÜTHGEN 1951)**

Material examined: Adıyaman: Hasancık, 650 m, 3.VII.2008, 4♂♂.

***Parodontodynerus ephippium* (KLUG 1817)**

Material examined: Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, 2♀♀;  
Erzurum: Oltu, Sarisaz, 1400 m, 20.VII.2007, 2♀♀.

***Allodynerus delphinalis* (GIRAUD 1866)**

Material examined: Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♀;  
Erzurum: Oltu, Sarisaz, 1400 m, 20.VIII.2007, ♀.

***Pseudepipona herrichii* (SAUSSURE 1856)**

Material examined: Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♀.

***Euodynerus dantici* (ROSSI 1790)**

Material examined: Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, 2♂♂.

***Euodynerus hellenicus* BLÜTHGEN 1942**

Material examined: Adıyaman: Hasancık, 650 m, 3.VII.2008, ♂.

***Euodynerus curictensis* BLÜTHGEN 1940**

Material examined : Adana: Karaisalı, Kızıldağ, Akpınar, 1650 m, 22.VII.2007, 6♂♂.

***Euodynerus disconotatus* (LICHTENSTEIN 1884)**

Material examined : Adana: Ceyhan, Botaş, 13.VII.2007, ♂, Karaisalı, Kızıldağ, Akpınar, 1650 m, 22.VII.2007, ♂.

***Ancistrocerus parietum* (LINNAEUS 1758)**

Material examined : Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, 8♂♂.

***Symmorphus crassicornis* (PANZER 1798)**

Material examined : Erzurum: Oltu, Sarısaz, 1400 m, 25.VII.2007, 2♀♀.

***Eumenes coarctatus* (LINNAEUS 1758)**

Material examined : Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♀, 4♂♂.

***Eumenes mediterraneus* KRIECHBAUMER 1879**

Material examined : Adana: Ceyhan, Botaş, 13.VII.2007, 5♂♂, Karaisalı, Kızıldağ, Akpınar, 1650 m, 22.VII.2007, 5♀♀, 4♂♂; Adıyaman: Hasancık, 650 m, 3.VII.2008, 4♂♂; Antalya: 15.VIII.2008, 3♂♂.

***Eumenes modestus* GUSENLEITNER 2006**

Material examined : Hakkari: 25 km SW, 1200 m, 30.V.1980, ♂, leg. K. Warncke, W Serpil, Mt. Cilo, 1800 m, 6.VIII.1982, ♂, leg. K. Warncke, S Varegöz, Mt. Sat, 1750 m, 6.VIII.1986, ♂, leg. K. Warncke, Sat Mt., Varegöz SW Yüksekova, 1700m, 4.-8.VIII.1983, 2♂♂, leg. W. Schacht.

Distribution in Turkey: New for the Turkish fauna.

Distribution in the world: Iran (GUSENLEITNER 2006).

***Eumenes pedunculatus* (PANZER 1799)**

Material examined : Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♂.

***Eumenes pomiformis* (FABRICIUS 1781)**

Material examined : Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♂.

***Eumenes sareptanus* ANDRE 1884**

Material examined : Adana: Karaisalı, Kızıldağ, Akpınar, 1650 m, 22.VII.2007, 3♀♀, 4♂♂.

***Katamenes flavigularis* (BLÜTHGEN 1951)**

Material examined : Erzurum: Olur, 1600 m, 20.VIII.2007, ♂.

**Subfamily M a s a r i n a e**

***Ceramius cyprius smyrnensis* RICHARDS 1962**

**M a t e r i a l   e x a m i n e d :** Adana: Ceyhan, Botaş, 13.VII.2007, 4♀ ♀, 4♂ ♂.

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